

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Roland Jungkind
Serial No. : 10/500,022 Confirmation No. : 2728
I.A. Filing Date : December 23, 2002

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Claims 1-14 (canceled).

15. (new) A sport shoe for holding at least one removable cleat, said sport shoe comprising:

a sole having at least one receptacle for receiving a cleat;

a removable cleat having a longitudinal axis and a locking pin along the longitudinal axis
of said cleat; and

a locking spring located in said receptacle;

said locking spring engaging said locking pin for locking said cleat to said sole in
response to the insertion of said locking pin into said receptacle.

16. (new) A sport shoe according to claim 15, wherein said locking pin has a cross section, and said
receptacle comprises a round hole with the same cross section as the cross section of said locking
pin.

17. (new) A sport shoe according to claim 15, wherein said sole further comprises a locking frame defining said receptacle and for holding said locking spring.
18. (new) A sport shoe according to claim 15, wherein said locking frame comprises a spring channel for holding said locking spring.
19. (new) A sport shoe according to claim 15, wherein said locking spring comprises a torsion spring having spring sides extending into said receptacle for releasably locking said locking pin in said receptacle.
20. (new) A sport shoe according to claim 19, wherein said sole further comprises a spring channel extending from and around said receptacle and having support walls in said spring channel, and said spring sides being pre-tensioned in the direction of said receptacle and being supported off said support walls, said spring sides having a locking condition for engaging said locking pin to releasably lock said pin in a locked condition in said receptacle.
21. (new) A sport shoe according to claim 19, wherein said locking pin comprises insertion inclines for pushing apart said spring sides of said locking spring in response to said cleat being pushed into said receptacle.
22. (new) A sport shoe according to claim 21, wherein said insertion inclines are diametrically opposed and have an angle between 35° and 45° with respect to the longitudinal axis of said cleat.
23. (new) A sport shoe according to claim 19, wherein said locking pin comprises locking surfaces, and wherein said spring sides of said locking spring have a locked state for engaging said locking surfaces for preventing movement of said cleat in the longitudinal or lateral direction.
24. (new) A sport shoe according to claim 19, wherein said locking pin comprises locking surfaces, and wherein said spring sides of said locking spring have a locked state for engaging said locking surfaces for preventing movement of said cleat in the longitudinal and lateral direction.

25. (new) A sport shoe according to claim 23, wherein said locking surfaces are diametrically opposed and have an angle of between 85° and 95° with respect to the longitudinal axis of said cleat.
26. (new) A sport shoe according to claim 25, wherein said locking surfaces have an angle of 90° with respect to the longitudinal axis of said cleat.
27. (new) A sport shoe according to claim 25, wherein said locking surfaces have a length of at least one half the diameter of said spring sides.
28. (new) A sport shoe according to claim 20, wherein said locking pin comprises spreading surfaces for pushing said spring sides in opposite directions away from said support walls in response to the rotation of said cleat for releasing said locking pin from said locked condition in said receptacle.
29. (new) A sport shoe according to claim 27, wherein said cleat is configured for rotation by means of a tool.
30. (new) A sport shoe according to claim 29 wherein the tool has recesses, and wherein said cleat has an outer surface, and said cleat comprises spurs extending from the outer surface complementary to recesses in the tool and said spurs mate with the recesses in said tool.
31. (new) A process for installing and removing a removable cleat in a shoe, the shoe having a receptacle, a locking spring extending from and around the receptacle for releasably locking the cleat in the receptacle, and the cleat having a locking pin having spreading surfaces configured to be locked by the locking spring when the locking pin is in one position relative to the locking and configured to be released when the locking pin is rotated to a second position by means of a tool for effecting engagement of the spring by the spreading surfaces, said process for installing the cleat comprising:

pressing the cleat into the receptacle for moving the locking pin to the one position by

said locking spring to lock the locking pin in the longitudinal and lateral directions; and

said process for removing the cleat comprising:

rotating the cleat to the second position with the tool to spread the locking spring with the spreading surfaces.